

18th Annual Fault Disturbance and Analysis Conference

Monday, April 27, 2015

- 8:00 AM Registration – Georgia Tech Global Learning Center
- 8:30 AM **Conference Opening / Welcoming Remarks**
A.P. Sakis Meliopoulos, Georgia Power Distinguished Professor, School of Electrical and Computer Engineering
Robert Orndorff, Chairman, Transient Recorder Users Council
- Morning Session** MA (Georgia Tech Global Learning Center)
Session Chair: **David Bertagnolli**
Co-Chair: **Phil Corliss**
- 8:40 AM **False Trips on Transformer Inrush – Avoiding the Unavoidable**
Raymond Ni, Peter Wang, ATCO Electric
Roy Moxley, Stefan Flemming, Sebastian Schneider, Siemens.
- 9:20 AM **The 6th man, always on duty**
J. Brian Starling, Dominion Virginia Power
- 10:00 AM BREAK
- 10:20 AM **Fault Location Experience using Simulation Software**
Ajmal Saeed, PG&E System Protection
- 11:00 AM **Line Protection Response to a Three-Phase Inter-circuit Fault**,
Ernie Hodge and Ed Atienza, Gainesville Regional Utilities, Schweitzer Engineering Laboratories, Inc.
- 11:40 AM Best Paper Award Presentation
A.P. Sakis Meliopoulos, Georgia Power Distinguished Professor, School of Electrical and Computer Engineering
- 11:50 AM LUNCH
- Afternoon Session** MP (Georgia Tech Global Learning Center)
Session Chair: **Tony Napikoski**
Co-Chair: **Irene Lu**
- 12:40 PM **Automated Disturbance Analytics and System-wide Dashboard Insights Using Open Source Software**
Fred Elmendorf, Grid Protection Alliance
- 1:20 PM **Cascading disturbance caused 1,800 MW generation lost in Colombian Power System**
N. J. Orrego, M. N. Arboleda, J. A. Zapata, XM Subsidiary of ISA
- 2:00 PM BREAK
- 2:10 PM **Multi-vendor Distributed Recorders using Standardized IEC 61850 GOOSE Communication**
Bruce Muschlitz, Novatech

- 2:50 PM **How the use of the "Electronic Current Transformer (ECT)" will facilitate NERCs Regional Reliability Standard PRC-002**
Don Burkart, ConEd
- 3:30 PM **Display and Discussion of Actual Fault Records Brought by Participants**
Moderator: **Robert Orndorff**, Dominion Virginia Power
- 3:50 PM BREAK
- 4:00 PM **User Forum**
Moderator: **Theo Laughner**, Tennessee Valley Authority
- 5:00 PM ADJOURN

Tuesday, April 28, 2015

- Morning Session** TA (Georgia Tech Global Learning Center)
Session Chair: **Sherry Goiffon**
Co-Chair: **Marlin Browning**
- 8:00 AM **Overview of an Automatic Distribution Fault Location System at United Illuminating Company**
Daniel D. Sabin, Electrotek Concepts
Elder Romero, Robert Manning and Marek Waclawiak, United Illuminating Company
- 8:40 AM **A Novel Technology for Determining the Control Islanding Boundaries**
Meiyan Li, Dominion Virginia Power
- 9:20 AM **Wide Area Blackout in Colombian Power System due to a Three Phase fault on a Busbar - Lessons Learned for Protection Criteria**
Julian Castano, Jorge Velez, Nohemi Arboleda, and Jaime Zapata, XM Subsidiary of ISA
- 10:00 AM BREAK
- 10:20 AM **Using openXDA for Improved and Automated Fault Location**
Robert Orndorff, Kyle Thomas, Dominion Virginia Power
Ling Wu, University of Tennessee, Knoxville
- 11:00 AM **Implementation of Road Map 2012-2015: DFR/FL For Acceleration of System Recovery and Enhancement of System Stability in Sumatera Power System**
Dhany Harmeidy Barus, Eko Yudo Pramono, PLN P3B Jawa Bali
- 11:40 AM LUNCH
- Afternoon Session** TP (Georgia Tech Global Learning Center)
Session Chair: **Alan Baker**
Co-Chair: **Theo Laughner**
- 12:40 PM **NERC Update**
Robert Cummings, NERC

- 1:20 PM **Analysis of Directional Overcurrent Protection Over-trip on Leading Power Factor Load & Application of Load Encroachment at National Grid**
Y. Irene Lu, Song Ji, National Grid
- 2:00 PM **Investigation of Fault Activity on a 132KV Teed Circuit in Scotland and how Travelling Wave Technology Located the Fault Site**
David Cole, Qualitrol, Scottish
Ron Garrett, Southern Energy
- 2:40 PM BREAK
- 3:00 PM **Testing of distributed fault and disturbance recording systems**
Alexander Apostolov, OMICRON electronics
- 3:40 PM **Analysis of a Relay Operation for an Intercircuit Fault**
Ryan McDaniel, Schweitzer Engineering Laboratories, Inc.
- 4:20 PM **Open Source Software Solutions for PMU Data Security and Resiliency**
Fred Elmendorf, Grid Protection Alliance
- 5:00 PM ADJOURN Closing Remarks
Robert Orndorff, Chairman, Transient Recorder Users Council

Alternate Papers:

Application of Merging Units for Synchrophasors Measurement, Marcelo N. Agostini, Lucas B. de Oliveira, Carlos Dutra, Sergio L. Zimath, and Ildemar C. Decker, Reason, Alstom

The Precision Time Protocol (IEEE1588) in Power System Applications, Carlos Dutra, Sergio L. Zimath, Lucas B. de Oliveira, Igor H. Cruz, Marcelo Dalmas and Higor Rachadel, Alstom Grid

Unconventional use of conventional substation data for enhanced reliability, situational awareness, and real-time asset health, Mirasoul J. Mousavi, Ning Kang, Dimitri Ishchenko, and James Stoupis, ABB, US Corporate Research Center